

Listing and Amendments to the Claims:

A listing of the entire set of pending claims (including amendments) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

1. **(Currently Amended)** A method for encrypting a digital data stream in a transmission system that uses orthogonal codes for the modulation, the method comprising:

constructing a k^{th} connection for a k^{th} digital data stream ($d^{(k)}$) by a k^{th} transmitter,

mixing the digital data stream ($d^{(k)}$) of the transmitter with a spreading code that is assigned to this k^{th} connection,

assigning, to the k^{th} connection, different spreading codes ($g_1^{(k)}$, $g_2^{(k)}$... $g_n^{(k)}$) from a defined set (G_i) of spreading codes, wherein the spreading codes are produced decentrally,

producing a transmission signal ($s^{(k)}$) through the mixing,

increasing the degree of encryption of the k^{th} digital data stream ($d^{(k)}$) during the k^{th} connection by allocating a sequence for the application of the different spreading codes ($g_1^{(k)}$, $g_2^{(k)}$... $g_n^{(k)}$),

establishing a hop interval (I_{hop}) for the k^{th} connection,

defining the sequence for the application of the content of a set of spreading codes (G_i) with a permutation function (S_i) indicating a permutation sequence of an order in which each individual spreading code of the assigned different spreading codes is applied in said mixing, and

transmitting the transmission signal, a representation of the permutation function, and a representation of said hop interval by said transmitter in said k^{th} connection.

2-9. **(Cancelled)**

10. **(Previously Presented)** The method as defined in claim 1 wherein a number of different spreading codes from said defined set of spreading codes is an integer N, where N is greater than or equal to 2 and is less than or equal to a total number of codes in said defined set.

11. (Previously Presented) The method as defined in claim 1 wherein said transmitting further includes transmitting the assigned different spreading codes from the defined set of spreading codes.

12. (Previously Presented) The method as defined in claim 1 wherein said transmitting further includes transmitting an identifier representative of each assigned different spreading code from the defined set of spreading codes.

13. (Previously Presented) The method as defined in claim 1 wherein said transmitting further includes transmitting an identifier representative of the permutation function.

14. (Previously Presented) The method as defined in claim 1 wherein said transmitting further includes transmitting the hop interval in terms of a quantity of data packets for which each spreading code is employed in said mixing.